

SECTION I-MATERIAL IDENTIFICATION AND USE

Material Name/Identifier:	Ultra low sulphur Diesel Fuel Antigel	Stock No.	973
Manufacturer's Name:	Kleen-Flo Tumbler Industries Ltd	Street Address:	75 Advance Blvd.
City:	Brampton	Province:	Ontario
Postal Code:	L6T 4N1	Emergency Phone #:	CANUTEC:- 613-996-6666 (24HR)
Chemical Name:	Mixture (N.Ap.)	Chemical Family:	Mixture (N.Ap.)
Chemical Formula:	Mixture (N.Ap.)	Trade Names & Synonyms:	Diesel Conditioner
Material Use:	Diesel fuel additive	Molecular Weight:	Mixture (N.Ap.)

SECTION II-HAZARDOUS INGREDIENTS OF MATERIAL

Hazardous Ingredients	C.A.S.	Approx. %wt. Concentration	LD50 Species & Route	LC50 Species & Route
2-Propanol	67-63-0	7-13	5045 mg/kg rat-oral	16000 ppm (4hr) rat-inh.
Dimethylbenzene	1330-20-7	40-70	4300 mg/kg rabbit-derma	5000 ppm (4hr) rat-inh.
Ethylbenzene	100-41-4	5- 10	3500mg/kg rat-oral	4000ppm(4hr) rat-inhal.
Petroleum Naphtha	64742-94-5	1- 5	3000mg/kg rat-oral	3800mg/m ³ rat-inhal.
Naphthalene	91-20-3	1- 5	490mg/kg rat-oral	340mg/m ³ rat-inhal
Trimethylbenzene	25551-13-7	0.1 - 1	N/Av.	N/Av.

SECTION III-PHYSICAL DATA FOR MATERIAL

Physical State:	liquid	Odour/Appearance:	Light pungent odour/yellow liquid
Specific Gravity:	0.86	Odour Threshold(p.p.m.):	N/E
Boiling Point:	82-137°C	Evaporation Rate:	N/E
Freezing Point:	< -35 °C	Solubility in Water:	Negligible
% Volatile(by volume):	N/E	Vapour Pressure(mm)Hg:	N/E
Vapour Density(Air=1):	N/E	Coefficient of Water/Oil Distribut:	N/E
pH:	N.Ap.		

SECTION IV-FIRE AND EXPLOSION HAZARD OF MATERIAL

Flammability Yes/No	Yes	If yes under which conditions?: Open flame, spark, excessive heat
Auto Ignition Temperature:	N/E	Means of Extinction: Dry chemical/carbon dioxide
Flashpoint and Method:	16°C TCC	Hazardous Combustion Products: Hydrocarbon fume, smoke
		Carbon monoxide, aldehydes
Upper Flammable limit (%vol)	6.8%	Lower Flammable Limit (% by volume): 1.1%
Explosion Data:	Sensitivity to Mechanical impact: No.	Sensitivity to Static Discharge: Yes

SECTION V-REACTIVITY DATA

Chemical Stability Yes/No:	Yes	If NO under which conditions?
Incompatibility to Other Substances Yes/No:	Yes	If so which ones? strong oxidizing agents & acids
Reactivity and under what conditions?	Avoid excessive heat, open flames and all ignition sources.	
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide are produced on combustion.	

N/E: not established	N.Ap.:not applicable	N/A: not available
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SECTION VI-TOXICOLOGICAL PROPERTIES OF PRODUCT

Route of Entry: ALL Routes	--SKIN CONTACT --SKIN ABSORPTION --EYE CONTACT --INHALATION --INGESTION		
Effects of Acute Exposure:	Product irritating to skin and eyes. Can cause conjunctivitis (eyes). Prolonged or repeated contact with skin can cause defatting and drying of skin resulting in skin dermatitis. May be irritating to respiratory passages. Prolonged exposure to high vapor concentration with petroleum distillates can cause headache, dizziness, nausea, and central nervous system depression.		
Effect of Chronic exposure:	Dimethylbenzene has been found to cause cardiac, liver and kidney effects, anemia and eye damage in laboratory animals. Prolonged and repeated inhalation of hydrocarbon solvents such as petroleum distillates can cause chronic neurological disturbances.		
Irritancy of product:	Skin and eye irritation	Exposure limit of Product:	N/E
Sensitization of Product:	N/E	Toxicologically Synergistic Materials:	None known
--CARCINOGENICITY --REPRODUCTIVE EFFECTS --TERATOGENICITY --MUTAGENICITY			N/E

Ethylbenzene which has been classified as possible human carcinogen (Gr.2B)

Naphthalene has been classified by International Agency for Research on Cancer(IARC) as possible human carcinogen(Gr.2B)

SECTION VII-PREVENTIVE MEASURES

Personal Protective Equipment to be used:

Gloves(specify):	Chemical resistant gloves	Eye (specify):	Safety goggles
Respiratory(specify):	Not required in normal use	Clothing:	Long sleeve shirt is recommended
Respiratory Protection:	If used indoors or on a continuous basis, use of cartridge type(NIOSH approved) respirator is recommended		
Engineering Controls:	Use local exhaust ventilation to control mists or vapors. Additional ventilation or exhaust may be required to maintain air concentration below recommended exposure limits.		
Leak and Spill Procedure:	Use non-reactive absorbent material and non sparking tools to contain spills. In case of large spill use explosion proof equipment. Eliminate all ignition sources. Dike and contain spills. Prevent from entering waterways.		
Waste Disposal:	Dispose according to federal, state (Provincial) and local regulations Do not dispose of through sewers and waterways.		
Storage Requirements:	Store in a cool, dry well ventilated area, away from heat and ignition sources.		
Handling Procedures and Equipment:	Open large containers/drum in a well ventilated area. Avoid breathing of vapors. Keep container closed when not in use. Handle with care. Do not inhale or ingest. Avoid skin, eye contact. Keep away from children.		
DSL listing	All components are listed in the inventory.		
TDG Classification:	#973:- Consumer Commodity, #975, #976:- Flammable liquid N.O.S (2-propanol solution) UN 1993 Class 3 Packing group II		
WHMIS Classification:	#973:- Consumer Commodity Complies with CCCR 2001, #975, #976 B2, D2A, D2B		

SECTION VIII-FIRST AID MEASURES

Eye:	Flush with water for at least 15 minutes. Get medical attention if eye irritation persists.
Skin:	Wash with soap and water. See doctor if irritation persist.
Inhalation	Move patient to fresh air and restore breathing if required. Call a physician if discomfort persist.
Ingestion:	DO NOT INDUCE VOMITING. If conscious, give a glass of water. Seek immediate medical attention.

SECTION IX-PREPARATION DATE OF M.S.D.S.

Additional Info/Comments:		Sources Used: Supplier's data
Phone Number:	(905) 793-4311	Prepared By: Quality Control Laboratory
Date Prepared:	Janauary 2, 2015.	Kleen-Flo Tumbler Industries Limited

THIS SHEET SUPERSEDES ANY OTHER M.S.D.S. PREVIOUSLY PREPARED

N/E: not established

N.Ap.:not applicable

N/A: not available